EX. 1

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EXHIBIT 11

NDA LOG

CI#:		L	376 Sub Date: 12/27/90	ì
Generic:			Appr Date:	ŗ
Product N	lame:	E	Estrostep Tablets	*
Barcode S	er/ Dat	•		
	ef# To:	5	RE/ Report Title/ Report No. Contents/Report No./	
	Froi	the second second		i
		*		
B04551	1 Th	u, Dec 27,	7, 1990 Initial NDA (Volumes 1.1 - 1.63)	
		 	Item 1: Table of Contents.	
	•	A Paragraphic Control of the Control	Item 2: Comprehensive Summary. Item 3: Chemistry, Manufacturing and Controls.	t ♥
		· · · · ·	Item 4: Samples, Methods and Labeling.	•
	•. •		Item 5:	
	· · · · ·		Item 6: Human Pharmacokinetics and Bioavailability.	
			Item 7:	•
**			Item 8: Clinical Data.	2
			Item 10: Statistical Data.	
			Item 11: Case Report Tabulations.	
	et.		Item 12: Case Report Forms.	1
			Item 13: Patient Information.	
	٠		(1) Research report submitted. Refer to Research Report list for RR#, date, author and title.	•
				·
B04602	Th	u, Jan 03,	, 1991 Letter From FDA Acknowledging Receipt of NDA (NDA 20-130)	-
			Re: Acknowledgement of receipt of NDA n 28-Dec-90; Number 20-130 assigned.	† ;
	i c	Short		e Pose
	J. 3			
BO4602	2 F		, 1991 Letter Re: Amendment to Estrostep NDA Items 3 & 4	
BO4602	2 F	ri, Feb 08, Sobel	CI-376	* .
BO4602	2 F			٠.
BO4602	2 F	Sobel	CI-376	
	2 F	Sobel	CI-376	
	2 F	Sobel	CI-376 Re: Amendment to Items 3 and 4 of the Estrostep NDA, information enclosed. , 1991 Letter Re: Pending New Drug Application for Estrostep-21 CI-376	
	2 F	Sobel	CI-376 Re: Amendment to Items 3 and 4 of the Estrostep NDA, information enclosed. , 1991 Letter Re: Pending New Drug Application for Estrostep-21 CI-376 Re: Enclosed copy of the minutes for the fertility and maternal health drugs advisory	
	2 F	Sobel	CI-376 Re: Amendment to Items 3 and 4 of the Estrostep NDA, information enclosed. , 1991 Letter Re: Pending New Drug Application for Estrostep-21 CI-376 Re: Enclosed copy of the minutes for the fertility and maternal health drugs advisory committee; the committee discussed family health international's proposal to	
	2 F	Sobel u, Mar 14,	CI-376 Re: Amendment to Items 3 and 4 of the Estrostep NDA, information enclosed. , 1991 Letter Re: Pending New Drug Application for Estrostep-21 CI-376 Re: Enclosed copy of the minutes for the fertility and maternal health drugs advisory	
B04602	2 Fi	Sobel u, Mar 14,	CI-376 Re: Amendment to Items 3 and 4 of the Estrostep NDA, information enclosed. , 1991 Letter Re: Pending New Drug Application for Estrostep-21 CI-376 Re: Enclosed copy of the minutes for the fertility and maternal health drugs advisory committee; the committee discussed family health international's proposal to standarize and simplify the patient directions for use.	
B04602	2 Final State of Stat	Sobel u, Mar 14, Sobel u, Mar 28,	CI-376 Re: Amendment to Items 3 and 4 of the Estrostep NDA, information enclosed. , 1991 Letter Re: Pending New Drug Application for Estrostep-21 CI-376 Re: Enclosed copy of the minutes for the fertility and maternal health drugs advisory committee; the committee discussed family health international's proposal to	
B04602 B04602	2 Final State of Stat	Sobel u, Mar 14,	CI-376 Re: Amendment to Items 3 and 4 of the Estrostep NDA, information enclosed. , 1991 Letter Re: Pending New Drug Application for Estrostep-21 CI-376 Re: Enclosed copy of the minutes for the fertility and maternal health drugs advisory committee; the committee discussed family health international's proposal to standarize and simplify the patient directions for use. , 1991 Letter Re: Amendment	

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				SubType: NDA
CI#:			37	76 Sub Date: 12/27/90
Generic	:			Appr Date:
Product Name: Estrost			Estroste	ep Tablets
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-	Ser/ Ref#	Date		RE/ Report Title/ Report No.
•	itein	To: From:		Contents/Report No./
		rioin:		
B04603		-	19, 1991	1 Letter Re: Request of 17-Apr-91
	•	G. Turner		Re: Per your request of Apr 17, 1991, attached is a copy of clinical Protocol 376-
				364 and three volumes of case report forms (CRF's) from Estrostep (NDA 20-130) Volume I contains cover letter and PR. 376-364.
				Volume II contains the CRF's from Site 3, every tenth patient. Walter Schoen, M.I
				Volume III contains the CRF's from Site 5, every fifteenth patient. Charles Veale, M.D.
•				Volume IV contains the CRF's from Site 6, every fifteenth patient. James Geil,
•				M.D.
				Each volume is tabbed according to patient number. If you have any questions, please feel free to call
			<u> </u>	piease reer riee to cair
		<u> </u>		
B04602	4			Letter Re: Case Report Forms
•••		S. Sobel		Re: For your information and files attached is a copy of the cover letter sent to Dr. G. Turner of the FDA's divisional scientific investigations, clinical investigations
				branch. We have supplied Dr. Turner with case report forms for Site 3, 5 and 6 of
			8 80	the Estrostep clinical study 376-364. If you have any questions, please contact m
				the Estrostep clinical study 376-364. If you have any questions, please contact m
B04605	5	Mon. Apr	22. 1991	
B04605	5	Mon, Apr S. Sobel	22, 1991	the Estrostep clinical study 376-364. If you have any questions, please contact m Letter Re: Amendment to Estrostep NDA Item 3 Re: Reference is made to our new drug application (NDA #20-130) for Estrostep
B04605	5	ار		Letter Re: Amendment to Estrostep NDA Item 3 Re: Reference is made to our new drug application (NDA #20-130) for Estrostep (norethindrone acetate and ethinyl estradiol, USP) tablets for oral contraception
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	5	S. Sobel		Letter Re: Amendment to Estrostep NDA Item 3 Re: Reference is made to our new drug application (NDA #20-130) for Estrostep (norethindrone acetate and ethinyl estradiol, USP) tablets for oral contraception submitted on December 27, 1990. Dr. Martin Benett of your division, in a phone conversation with Dr. Sean Brennan (Parke-Davis) on April 11, 1991, requested the addresses of the maufacturing facilities for the drug substances, norethindrone acetate and ethinyl estradiol. We are amending the following to Item 3 of the NDA As noted in the attached letters from the suppliers, the addresses are: See attached; Continued - see central file copy.
B04605	5	S. Sobel Fri, Apr	26, 1991	Letter Re: Amendment to Estrostep NDA Item 3 Re: Reference is made to our new drug application (NDA #20-130) for Estrostep (norethindrone acetate and ethinyl estradiol, USP) tablets for oral contraception submitted on December 27, 1990. Dr. Martin Benett of your division, in a phone conversation with Dr. Sean Brennan (Parke-Davis) on April 11, 1991, requested the addresses of the maufacturing facilities for the drug substances, norethindrone acetate and ethinyl estradiol. We are amending the following to Item 3 of the NDA As noted in the attached letters from the suppliers, the addresses are: See attached; Continued - see central file copy. Letter Re: 4-Month Safety Update (Volumes 3.1 - 3.2)
	5	S. Sobel	26, 1991	Letter Re: Amendment to Estrostep NDA Item 3 Re: Reference is made to our new drug application (NDA #20-130) for Estrostep (norethindrone acetate and ethinyl estradiol, USP) tablets for oral contraception submitted on December 27, 1990. Dr. Martin Benett of your division, in a phone conversation with Dr. Sean Brennan (Parke-Davis) on April 11, 1991, requested the addresses of the maufacturing facilities for the drug substances, norethindrone acetate and ethinyl estradiol. We are amending the following to Item 3 of the NDA As noted in the attached letters from the suppliers, the addresses are: See attached; Continued - see central file copy. Letter Re: 4-Month Safety Update (Volumes 3.1 - 3.2) Re: Attached is the 4-month safety update for the Estrostep NDA 20-130.
	5	S. Sobel Fri, Apr	26, 1991	Letter Re: Amendment to Estrostep NDA Item 3 Re: Reference is made to our new drug application (NDA #20-130) for Estrostep (norethindrone acetate and ethinyl estradiol, USP) tablets for oral contraception submitted on December 27, 1990. Dr. Martin Benett of your division, in a phone conversation with Dr. Sean Brennan (Parke-Davis) on April 11, 1991, requested the addresses of the maufacturing facilities for the drug substances, norethindrone acetate and ethinyl estradiol. We are amending the following to Item 3 of the NDA As noted in the attached letters from the suppliers, the addresses are: See attached; Continued - see central file copy. Letter Re: 4-Month Safety Update (Volumes 3.1 - 3.2) Re: Attached is the 4-month safety update for the Estrostep NDA 20-130. The original integrated summary of safety summarized data from one clinical pharmacology study (376-372) and on clinical study (376-364), through a cut-off
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	5	S. Sobel Fri, Apr	26, 1991	Letter Re: Amendment to Estrostep NDA Item 3 Re: Reference is made to our new drug application (NDA #20-130) for Estrostep (norethindrone acetate and ethinyl estradiol, USP) tablets for oral contraception submitted on December 27, 1990. Dr. Martin Benett of your division, in a phone conversation with Dr. Sean Brennan (Parke-Davis) on April 11, 1991, requested the addresses of the maufacturing facilities for the drug substances, norethindrone acetate and ethinyl estradiol. We are amending the following to Item 3 of the NDA As noted in the attached letters from the suppliers, the addresses are: See attached; Continued - see central file copy. Letter Re: 4-Month Safety Update (Volumes 3.1 - 3.2) Re: Attached is the 4-month safety update for the Estrostep NDA 20-130. The original integrated summary of safety summarized data from one clinical pharmacology study (376-372) and on clinical study (376-364), through a cut-off date of March 28, 1990. The safety update summarizes the safety data from 2 clinical pharmacology studie (376-372 and 376-376) and 2 clinical studies (376-364 and 376-369). Additional safety data in 228 subjects from one ongoing clinical study (376-374) were also reviewed for serious adverse events and withdrawals due to adverse events. This safety update summarizes safety informaton collected through the cut-off data
	6	S. Sobel Fri, Apr	26, 1991	Letter Re: Amendment to Estrostep NDA Item 3 Re: Reference is made to our new drug application (NDA #20-130) for Estrostep (norethindrone acetate and ethinyl estradiol, USP) tablets for oral contraception submitted on December 27, 1990. Dr. Martin Benett of your division, in a phone conversation with Dr. Sean Brennan (Parke-Davis) on April 11, 1991, requested the addresses of the maufacturing facilities for the drug substances, norethindrone acetate and ethinyl estradiol. We are amending the following to Item 3 of the NDA As noted in the attached letters from the suppliers, the addresses are: See attached; Continued - see central file copy. Letter Re: 4-Month Safety Update (Volumes 3.1 - 3.2) Re: Attached is the 4-month safety update for the Estrostep NDA 20-130. The original integrated summary of safety summarized data from one clinical pharmacology study (376-372) and on clinical study (376-364), through a cut-off date of March 28, 1990. The safety update summarizes the safety data from 2 clinical pharmacology studie: (376-372 and 376-376) and 2 clinical studies (376-364 and 376-369). Additional safety data in 228 subjects from one ongoing clinical study (376-374) were also

CI#:		3	76 Sub Date: 12/27/90
Generic			Appr Date:
	•		
Product	Name	: Estrost	ep Tablets
	Ser/	Date	RE/ Report Title/ Report No.
•	Ref#	To:	Contents/Report No./
• •		From:	
			현실 등의 기업을 통해 보고 있는데 이번 사용하다. 이번 사용하는데 이번 경기를 보고 있는데 이번 이번 기업을 통해 되었다. 2018년 - 1918년 - 1914년 - 1918년 -
B04605	7	1	1 Letter Re: Amendment to Estrostep NDA Item 3
	· ,	S. Sobel	Re: Reference is made to our NDA 20-130 for Estrostep (norethindrone acetate and
	•		ethinyl estradiol, USP) tablets for oral contraception submitted on Dec. 27, 1990.
•	•		Enclosed within is an amendment to Item 3 of the Estrostep NDA. As described in the Dec. 27, 1990 cover letter to the NDA, and as agreed in a Oct. 26, 1990
· 	· :- · ·		discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full
			production scale lots are to be submitted to the NDA. This amendment contains the six month stability reports for the following full scale
			production lots:
			Continued - see central file copy.
	V.	S. Brennan	
B04605	8		1 Letter Re: Response to FDA Request for Information
		S Sobel	Re: Reference is made to our new drug application (NDA 20-130) for Estrostep
3			(norethindrone acetate and ethinyl estradiol, USP) tablets for oral contraception submitted on December 27, 1990. In response to a telephone request by Dr. Marti
			Bennett of your division (11-Jun-91), we are amending Item 3 of the NDA to clarify
	2.		the description of the PVC blister material described on P. 159 of Item 3 (Volume 1.2). The blister package material is described as "colendered polyvinyl chloride."
			The word "colendered" is a typographical error which should be "calendered".
			Calendered polyvinyl chloride describes the process used to make the blister
			material. The process of forming sheets of polyvinyl chloride by pressing the material between rollers or plates is referred to as calendering.
			Continued - see central file copy.
¥.		S. Brennan	
	<u></u>	Wed, Jun 19, 199	Letter Re: Promotion of Oral Contraceptive
B04605		M. Taylor	Re: This letter is intended to provide information regarding the promotion of oral
B04605		• •	contraceptive drug products. It was developed jointly between the divisions of
B04605	,	•	
B04605			metabolism and endocrine drug products and drug marketing, advertising, and communications and should be considered informal guidance regarding acceptable
B04605			metabolism and endocrine drug products and drug marketing, advertising, and communications and should be considered informal guidance regarding acceptable promotion for these products at this time. This letter has been sent to all applicant
B04605			metabolism and endocrine drug products and drug marketing, advertising, and communications and should be considered informal guidance regarding acceptable
B04605		S. Sobel	metabolism and endocrine drug products and drug marketing, advertising, and communications and should be considered informal guidance regarding acceptable promotion for these products at this time. This letter has been sent to all applicant holders for oral contraceptive products.
	9	<u>V _ 13.55</u>	metabolism and endocrine drug products and drug marketing, advertising, and communications and should be considered informal guidance regarding acceptable promotion for these products at this time. This letter has been sent to all applicant holders for oral contraceptive products. Continued - see central file copy.
B04605	9	<u>V _ 13.55</u>	metabolism and endocrine drug products and drug marketing, advertising, and communications and should be considered informal guidance regarding acceptable promotion for these products at this time. This letter has been sent to all applicant holders for oral contraceptive products. Continued - see central file copy. Letter Re: Research Report Page Corrections
	9	Tue, Jun 25, 1991	metabolism and endocrine drug products and drug marketing, advertising, and communications and should be considered informal guidance regarding acceptable promotion for these products at this time. This letter has been sent to all applicant holders for oral contraceptive products. Continued - see central file copy. Letter Re: Research Report Page Corrections Re: The following research report was submitted to the original NDA on 27-Dec-90 A Single-Dose Bioavailability Study of Market-Image and Estrostep 1/35 Tablets Currently Being Used in Clinical Trials and Market-Image Tablets Prepared as a
	9	Tue, Jun 25, 1991	metabolism and endocrine drug products and drug marketing, advertising, and communications and should be considered informal guidance regarding acceptable promotion for these products at this time. This letter has been sent to all applicant holders for oral contraceptive products. Continued - see central file copy. Letter Re: Research Report Page Corrections Re: The following research report was submitted to the original NDA on 27-Dec-90 A Single-Dose Bioavailability Study of Market-Image and Estrostep 1/35 Tablets

•		SubType: NDA
CI#:		376 Sub Date: 12/27/90
	<u> </u>	
Generic:		Appr Date:
Product Name	: Estr	ostep Tablets
arcode Ser/ Ref#	Date To:	RE/ Report Title/ Report No. Contents/Report No./
	From:	
• •		
204005	111111111111111111111111111111111111111	2041 Mar Day Ida Affred Dagata at a fact that
04605	<u> </u>	991 Letter Re: Identified Deficiencies in Application
•	I. Martin	Re: Reference is made to your pending new drug application, for Estrostep-21 (norethindrone acetate and ethinyl estradiol) tablets and Estrostep-28 (norethindrone
	·	acetate and ethinyl estradiol tablets and ferrous fumarate tablets). Although we
•		have not completed our review of your application, we have identified certain
		deficiencies in the application and request that you provide the following information
₩ 		1. A copy of the patient package insert (PPE) must be submitted, and the physician
		insert (prescribing information: PPI) must include a reproduction of the PPI. All
	$\hat{L} = \hat{L} + \hat{L}$	labeling pieces must include the issue date and the maufacturer's name and address. The established name must accompany the proprietary name as required in
		21 CRF 201.10(G).
		Continued - see central file copy.
	S. Sobel	
04606 10	<u> </u>	991 Letter Re: New Drug Application
•	S. Sobel	Re: Reference is made to your letter of 24-Jul-91 regarding our new drug application
	*	for Estrostep. Please find attached 5 copies of the physician insert (PI), patient
		package insert (PPI) and patient brief summary. These documents have now been typeset and include the issue date and manufacturer name and address. The
		established name has been added to accompany the proprietary name as required in
		21 CRF 201.10(G). The PPI was submitted in draft format in the NDA in Item 4,
		samples, methods and labeling, Volume 1.3. We are currently in the process of
		revising the 21 and 28 day blister package labels to comply with the requirement in
	**	which the established name must be no less than half the height of the proprietary
		name. Copies will be submitted shortly.
		Continued - see file copy.
	M. Taylor	
04606	Fri, Sep 06, 19	991 Minutes of FDA Meeting
		Date: 31-Jul-91
		Switch of oral contraceptives to OTC status.
04606	Fri. Sep 20 19	991 Letter Re: Summary and Reports on Disk
	J. Hunt	Re: As requested by you on 16-Sep and E. Galliers on 18-Sep, attached are the
		disks for the following portions of the Estrostep NDA.
	·	1) Section 6.1. Summary of the human pharmacokinetics of norethindrone acetate
		and ethinyl estradiol.
	-	2) Section 6.3. Report: (See file copy)
		3) Section 6.3. Report:)See file copy)
•		The disks are in Wordperfect 5.1 and contain primarily the text portion of the
		summary and reports. This information is identical to what was submitted as hard copy therefore this letter/disks have not been submitted to the NDA.
		The additional comparison document and reports which were presented on 16-Sep
		will be submitted to the division of Metabolism/Endocrine with a desk copy and
		Wordperfect disk copy to you.

		F#: 20-130	NDA Doc Type: FDA CORRESPONDENCE 10/11/96 Page 5 SubType: NDA
CI#:		3	376 Sub Date: 12/27/90
Generic	•	u 1	Appr Date:
Product	Name	: Estros	step Tablets
	Ser/ Ref#	Date To:	RE/ Report Title/ Report No. Contents/Report No./
		From:	
B04606	11	Mon, Sep 23, 199	91 Letter R: Life Table Calculations
		M. Ponnapalli	Re: Please find attached the life table calculations requested by you on 16-Sep-91.
			This information will be part of a submission to the division of Metabolism/Endocrine. Questions call
		M. Taylor	
B04606	12	Wed, Oct 02, 199	91 Letter Re: Amendment No. 4
	1	S. Sobel	Re: Reference is made to our pending NDA 20-130 for Estrostep and our meeting of
			16-Sep-91 with your division. Enclosed is the additional information on Estrostep as agreed to at our meeting. We have updated the pregnancy and adverse event charts and summaries distributed at
			the meeting, with new information. This document is dividied into the following 4 sections. 1) Pharmacokinetics - see file copy.
			2) Product comparison - see file copy. 3) Pregnancies - see file copy. 4) Adverse events - see file copy.
			The formulation and process used to manufacture Estrostep for the clinical study 376-364 is the same as what we intend to use to manufacture tablets for marketing Continued - see file copy.
		M. Taylor	Continued - see the copy.
B04606	13	Fri. Oct 18, 199	91 Letter Re: Additional Information Requested
	1 .0	S. Sobel	Re: Please find attached additional information requested of me by Dr. R.
			Velagapudi, division of Biopharmaceutics, during a discussion on 16-Oct-91. Questions call
14.40 14.40 14.40	Se	M. Taylor	
B04606	14	Mon. Oct 28, 199	1 Letter Re: Additional Information
		S. Sobel	Re: Please find attached the additional information requested by Dr. R. Velagapudi,
			division of Biopharmaceutics, by telephone on 21, 22 and 24-Oct-91. These responses were faxed to Dr. Velagapudi on 23 and 25-Oct-91. Question call
	,	M. Taylor	
·· .		Wed, Nov 06, 199	Changes in Preclinical and Clinical
B04606		<u> </u>	In 11/89 DMEDP wrote to current manufacturers of oral contraceptives describing
B04606		I. Martin	
B04606		i. iviartin	changes in the preclinical and clinical testing requirement for steroidal contraceptives based in part on recommendations of the world health organization and FDA's Advisory Committee for Fertility and Maternal Health Drugs.

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			SubType: NDA
CI#:		3	76 Sub Date: 12/27/90
Generi	c:	: [Appr Date:
Produc	et Name:	Fetros	tep Tablets
710886	A Maine.	Estros	tep radiets
Barcode	Ser/	Date	RE/ Report Title/ Report No.
	Ref#	To:	Contents/Report No./
: : :		From:	
			Markan Bilian de Markan de la companya de la compa Markan de la companya de la company
B04606	15	Thu, Nov 07, 199	1 Letter Re: Estrostep Labels
t		S. Sobel	Re: In response to your letter of 24-Jul-91 requesting copies of each (21 and 28 day
	•		packages) blister package configuration (label) in which the established name is no less than half the height of the proprietary name as required in 21 CFR 201.10(G),
			we provide the attached corrected configurations. Also requested was a potency
	V + = 11 11 14 × 1		statement on the label, if space permits. Space on the label does not permit a
			potency statement. Thirteen copies of the final printed labels are submitted as 7 mounted copies and 6 unmounted copies divided into 3 copies of each in 2
		- 1,000 - 1,000 - 1,000	envelopes as requested by the division of Metabolism and Endocrine drug products.
			Questions call
		M. Taylor	
B04606		Mon, Nov 25, 199	1 FDA Minutes of Our 16-Sep-91 Meeting on Estrostep
L			
B04606	16	Tue New 26, 100	11 anns Dec Hadras de Français NDA harra O
B04606	16	S. Sobel	1 Letter Re: Update to Estrostep NDA Item 3
		3. 30bei	Re: Reference is made to our NDA (20-130) for Estrostep (norethindrone acetate and ethinyl estradiol, USP) tablets for oral contraception submitted on 27-Dec-90.
	21.		Enclosed as Attachment 1 is an update to Item 3 of the Estrostep NDA. As
a de la companya de l Companya de la companya de la compa			described in the 27-Dec-90 cover letter to the NDA, and as agreed in a 26-Oct-90
			discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted to the NDA.
			Attachment 1 contains the 9 and 12 month stability reports for the full scale
			production lots. The 08-Feb-91 amendment contained three month data and the 16-
			May-91 amendment contained the six month data for these lots. Continued - see file copy.
*		S. Brennan	
50.000			
B04606		Mon, Dec 09, 199	1 Minutes of FDA Meeting
,			Date: 16-Sep-91 Minutes for internal purposes only. No minutes have been or will be submitted to
	•	•	the FDA as we committed to provide all the information requested at the meeting in
		•	the amendment. This amendment was submitted on 02-Oct-91.
*	*-		
B04606		Thu, Dec 12, 199	1 Minutes of FDA Meeting
<u> </u>			Date: 04-Dec-91
• .			FDA meeting to discuss proposal for a manufacturing process change for this
-			unapproved product and the data requirements to support the change, especially with respect to bioequivalence to the product used in the clinical trials and to be
			INVITATES DECLETA DIDERNIVE INDOCE TO THE REGAUNCE HEAR IN THE CLINICAL TRIBLE AND TO BO
	·		marketed.

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IND/N	IDA/DM	F#: 20-13	10	NDA	Doc Type:	FDA COR	RESPOND	ENCE	10/11/96	Page 7
	-	The transfer of the second of			Sub	Type:	NDA		•	
CI#:			37	'6	Sub	Date:		12/27/90		
Generi	ic:				App	or Date:				
Dun dun		_	Catront	on Tobleto						
Produc	ct Name		Estrost	ep Tablets			· · · · · · · · · · · · · · · · · · ·			
Parada	Sort	Data		DE/	Paris This					
Barcode	Ser/ Ref#	Date		RE/ Contents/R	Report Title/	Report No	•			
		To:		#1. #1.4 / 2.						
		From:								
304607	18	B Fri. Dec	20, 1991	Letter Re:	Safety Update	<u> </u>	<u> </u>		<u>** : </u>	<u> </u>
		S. Sobel			ned is a safety		the Estroste	ep NDA 20-1	30. The o	riginal
•	1 11	<u> </u>	· · · · · · · · · · · · · · · · · · ·		summary of s			-		•
				_	6-372) and one	e clinical stu	ıdy (376-36	64), through	a cut-off da	ate of 28-Ma
		* 5.3 *		90.	-al#	1 1 #O	ab ** * - *	20. 4 24		d
				1	nth safety upda two clinical ph			<u>-</u>		•
		*		1	ıdies (376-364	— ·		, U-S/Z and	370-370) d	nu unee
				1	- see file copy	-	0.00,.			
·	;	M. Taylor		·		· · · · · · · · · · · · · · · · · · ·		, '		-
			in the second	<u>.</u>	26.4 19.44	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		
04607	17	_ -	21, 1991		Amendment 5			<u></u>		
		S. Sobel	······································		nce is made to	•	_			neeting of 04
				1	ith your divisio			-		- f
	•		: *		unication betw sceutics on 05-		=			
				1	ound information			_		••
				2) Dissolut	tion - continue	d see file co	ру.			
				1	cokinetics - co			_		
	·			D Company	l manufacturing	- ·	nd batch re	cords		
					- see file copy contact	•				
		S. Brennar	<u> </u>	Quotiono	Contact				· · ·	
·	-	O. Brema		<u></u>	÷ :	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	:	
04607		Mon, Jan	13, 1992	Letter Re:	Additional Day	s for Review	W			
· ·		I. Martin			nce is made to	•	_	•	1 tablets ar	nd Estrostep
			*]	ol tablets and t				and the s	EDA 22
	· .	."		vve also re Dec-91.	efer to the 21-l	Jec-91, ame	enament to	your NDA re	eceived by	FDA on 23-
	. * ".		Aug. Santan		er your amend	ment a mai	or amendm	ent under 21	CFR 314.0	30 and we
	· · · · · · · · · · · · · · · · · · ·			.1	mined that 12	_				
				due date is	s 29-May-92.			·		
,		, .		Questions	contact Ms. E	nid Galliers.				
		S.Sobel]		e e e e e e e e e e e e e e e e e e e	*			•
04607	19	Wed Feb	12 1992	Letter Re-	Additional Info	rmation		·	. 	<u> </u>
		S. Sobel	, 1002	 	find attached	.	nformation	requested hy	/ Dr. R. V/el	aganudi
		<u> </u>		_	Biopharmaceu					
		•			r. Velagapudi (•	. — -	-	
		,	. *	Questions	contact					·····
	3.	M. Taylor					p			

IND/NDA/DMF	F#: 20-130	NDA		CORRESPON	······································	10/11/96 Page 8
		070	SubType:	NDA		
CI#:		376	Sub Date:		12/27/90	
Generic:			Appr Date:			
Product Name:	* 4.45	Estrostep Tablets	<u> </u>			
arcode Ser/ Ref#	Date To:	RE/ Contents	Report Title/ Repor /Report No./	t No.		
	From:					
804607 20	Fri, Mar 1	3, 1992 Letter Re	e: Additional Information	n	<u> </u>	
	S. Sobel	Re: On 0	2-Mar-92, Dr. R. Velag	apudi from th	e division of Bi	opharmaceutics
		response to Dr. Ve Dissolution 0.06% so acetate (performe	elagapudi by telecopy o on of Estrostep tablets odium lauryl sulfate. D NA) to norethindrone a	marized below in 13-Mar-92. is performed i due to the pote and degradatio	v. A copy of the in 0.1 N hydrodential for hydroden of ethinyl est	nis letter was transmitted chloric acid containing
	S. Brennan	Continue	u - see me copy.			
	• • • • • • • • • • • • • • • • • • •				· · · · · · · · · · · · · · · · · · ·	
04608 21	'		: Response to Request		• • • • • • • • • • • • • • • • • • • •	
	S. Sobel	<u></u>	se find attached addition of Biopharmaceutics by		•	
	M. Taylor	change h B. Updat C. Multip	d 2-Oct-91. The comp have been made in the rate clinical pharmacologonal ple dose study protocologonal ed - see letter)	report. No sai y section of la	mple reanalysis	s was done.
04040	48				· · · · · · · · · · · · · · · · · · ·	
04610 22	<u></u>		: Amendment 4 Revision		2.100 (5 :	
	S. Sobel	of 2-Oct- 364 and amendme In the 37 confidence bound wa Estrostep page as in Tab 1: Program Tab 2: Se	91, Amendment 4. Up 376-369, it was discovered	oon further extended that two vered that two vered that two vere was an error lindex for Espound for Loes corrected page 1-91.	amination of the errors were more in reading a trostep and Locatrin and the uper and for your results.	estrin. The 97.5% oper bound for reference, the original
	M. Taylor					
04610 23	Tue, May 0	5, 1992 Letter Re	: Response to Request	for Informatic	<u></u>	<u></u>
	S. Sobel	Re: Refer	ence is made to our pe	ending NDA 20	0-130 for Estro	• •
		recomme we comme evaluate especially the stabil agency.	nitted to analyze dissolution medic other dissolution medic y norethindrone acetate lity of the two compour The dissolution medium roval by FDA of an NDA	on of Biopharr ution samples um to determir e, can be impre nds is enhance n and specific	maceutics. In o within two home ne if the stability oved. If a med ed, we will disc ations will not	our letter of 13-Mar-92, urs of sampling. We will ty of the two drugs, lium is found in which cuss our results with the
		Questions	s contact			
i	M. Taylor					

CI#:		3	Sub Date: 12/27/90
Generic			Appr Date:
Produc	t Name	: Estros	tep Tablets
Barcode	Ser/	Date	RE/ Report Title/ Report No.
	Ref#	To:	Contents/Report No./
		From:	
; ;			
304610	24	Thu, Jun 11, 199	2 Letter Re: Safety Update
		S. Sobel	Re: Following is a summary of the safety information for Estrostep NDA 20-130.
			The original integrated summary of safety summarized data from one clinical pharmacology study (376-372) and one clinical study (376-364), through a cut-of date of 28-Mar-90.
			The 4-month safety update (ref. no. 6) submitted 26-Apr-91 summarized the safety
· · · · · · · · · · · · · · · · · · ·			data from two clinical pharmacology studies, (376-372 and 376-376) and three clinical studies (376-364, 376-369, and 376-374). Continued - see file copy.
	٠.	M. Taylor	
304610	25	Thu. Jun 18, 199	2 Letter To: Update to Estrostep NDA Item 3
		S. Sobel	Re: Reference is made to our NDA (NDA 20-130) for Estrostep (norethindrone
			acetate and ethinyl estradiol, USP) tablets for oral contraception submitted on 27-
			Dec-90. Enclosed is an update to Item 3 of the Estrostep NDA. As described in the 27-Dec-90 cover letter to the NDA, and as agreed in an 26-Oc
			- termination and the common common and the common
			90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted of the NDA.
			90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted of the NDA. This amendment contains the 18-month stability reports for the full scale producti
			90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted of the NDA. This amendment contains the 18-month stability reports for the full scale production and initial and 3-month results from three production scale batches using the revised drying process (Amendment 5, 21-Dec-91).
			90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted of the NDA. This amendment contains the 18-month stability reports for the full scale production lots and initial and 3-month results from three production scale batches using the
		S. Brennan	90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted of the NDA. This amendment contains the 18-month stability reports for the full scale production lots and initial and 3-month results from three production scale batches using the revised drying process (Amendment 5, 21-Dec-91).
304610			90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted of the NDA. This amendment contains the 18-month stability reports for the full scale production lots and initial and 3-month results from three production scale batches using the revised drying process (Amendment 5, 21-Dec-91).
304610			90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted of the NDA. This amendment contains the 18-month stability reports for the full scale production and initial and 3-month results from three production scale batches using the revised drying process (Amendment 5, 21-Dec-91). Continued - see file copy. 2 Reference to 6/19/92 meeting. Thanking agency for meeting with us. Look forward to response regarding the
304610		Thu, Jun 25, 199 D. Michels	90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted of the NDA. This amendment contains the 18-month stability reports for the full scale production and initial and 3-month results from three production scale batches using the revised drying process (Amendment 5, 21-Dec-91). Continued - see file copy. 2 Reference to 6/19/92 meeting.
		Thu, Jun 25, 199 D. Michels W. Merino	90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted of the NDA. This amendment contains the 18-month stability reports for the full scale productions and initial and 3-month results from three production scale batches using the revised drying process (Amendment 5, 21-Dec-91). Continued - see file copy. 2 Reference to 6/19/92 meeting. Thanking agency for meeting with us. Look forward to response regarding the status of pre-approval inspections.
		Thu, Jun 25, 199 D. Michels W. Merino Thu, Jun 25, 199	90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted of the NDA. This amendment contains the 18-month stability reports for the full scale productions and initial and 3-month results from three production scale batches using the revised drying process (Amendment 5, 21-Dec-91). Continued - see file copy. 2 Reference to 6/19/92 meeting. Thanking agency for meeting with us. Look forward to response regarding the status of pre-approval inspections.
		Thu, Jun 25, 199 D. Michels W. Merino Thu, Jun 25, 199 Distribution	90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted of the NDA. This amendment contains the 18-month stability reports for the full scale productions and initial and 3-month results from three production scale batches using the revised drying process (Amendment 5, 21-Dec-91). Continued - see file copy. Reference to 6/19/92 meeting. Thanking agency for meeting with us. Look forward to response regarding the status of pre-approval inspections.
		Thu, Jun 25, 199 D. Michels W. Merino Thu, Jun 25, 199	90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted of the NDA. This amendment contains the 18-month stability reports for the full scale producti lots and initial and 3-month results from three production scale batches using the revised drying process (Amendment 5, 21-Dec-91). Continued - see file copy. 2 Reference to 6/19/92 meeting. Thanking agency for meeting with us. Look forward to response regarding the status of pre-approval inspections.
304610		Thu, Jun 25, 199 D. Michels W. Merino Thu, Jun 25, 199 Distribution	90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted of the NDA. This amendment contains the 18-month stability reports for the full scale productions and initial and 3-month results from three production scale batches using the revised drying process (Amendment 5, 21-Dec-91). Continued - see file copy. 2 Reference to 6/19/92 meeting. Thanking agency for meeting with us. Look forward to response regarding the status of pre-approval inspections. 2 Letter sent to Agency This attached letter was sent to the agency on 6/25/92, via Fed-X.
304610 304610		Thu, Jun 25, 199 D. Michels W. Merino Thu, Jun 25, 199 Distribution W. Merino	90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted of the NDA. This amendment contains the 18-month stability reports for the full scale productions and initial and 3-month results from three production scale batches using the revised drying process (Amendment 5, 21-Dec-91). Continued - see file copy. 2 Reference to 6/19/92 meeting. Thanking agency for meeting with us. Look forward to response regarding the status of pre-approval inspections. 2 Letter sent to Agency This attached letter was sent to the agency on 6/25/92, via Fed-X. 2 FDA Letter Reference is made to your NDA submitted 27-Dec-90, pursuant to Section 505 (B)
304610		Thu, Jun 25, 199 D. Michels W. Merino Thu, Jun 25, 199 Distribution W. Merino Thu, Aug 27, 199	90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted of the NDA. This amendment contains the 18-month stability reports for the full scale productions and initial and 3-month results from three production scale batches using the revised drying process (Amendment 5, 21-Dec-91). Continued - see file copy. 2 Reference to 6/19/92 meeting. Thanking agency for meeting with us. Look forward to response regarding the status of pre-approval inspections. 2 Letter sent to Agency This attached letter was sent to the agency on 6/25/92, via Fed-X. 2 FDA Letter Reference is made to your NDA submitted 27-Dec-90, pursuant to Section 505 (B (1) of the FDA act for the preparation Estrostep-21 (norethindrone acetate and
304610		Thu, Jun 25, 199 D. Michels W. Merino Thu, Jun 25, 199 Distribution W. Merino Thu, Aug 27, 199	90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted of the NDA. This amendment contains the 18-month stability reports for the full scale productions and initial and 3-month results from three production scale batches using the revised drying process (Amendment 5, 21-Dec-91). Continued - see file copy. Reference to 6/19/92 meeting. Thanking agency for meeting with us. Look forward to response regarding the status of pre-approval inspections. Letter sent to Agency This attached letter was sent to the agency on 6/25/92, via Fed-X. PDA Letter Reference is made to your NDA submitted 27-Dec-90, pursuant to Section 505 (B (1) of the FDA act for the preparation Estrostep-21 (norethindrone acetate and ethinyl estradiol tablets and ferrous fumarate tablets).
304610		Thu, Jun 25, 199 D. Michels W. Merino Thu, Jun 25, 199 Distribution W. Merino Thu, Aug 27, 199	90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted of the NDA. This amendment contains the 18-month stability reports for the full scale productions and initial and 3-month results from three production scale batches using the revised drying process (Amendment 5, 21-Dec-91). Continued - see file copy. 2 Reference to 6/19/92 meeting. Thanking agency for meeting with us. Look forward to response regarding the status of pre-approval inspections. 2 Letter sent to Agency This attached letter was sent to the agency on 6/25/92, via Fed-X. 2 FDA Letter Reference is made to your NDA submitted 27-Dec-90, pursuant to Section 505 (B (1) of the FDA act for the preparation Estrostep-21 (norethindrone acetate and ethinyl estradiol tablets and ferrous fumarate tablets). We also acknowledge receipt of your additional correspondence dated 8-Feb, 28-Mar, 19-22-26-Apr, 16-May, 12-25-Jun, 22-Aug, 2-18-28-Oct, 7-26-Nov, 20-21-
304610		Thu, Jun 25, 199 D. Michels W. Merino Thu, Jun 25, 199 Distribution W. Merino Thu, Aug 27, 199	90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted of the NDA. This amendment contains the 18-month stability reports for the full scale productions and initial and 3-month results from three production scale batches using the revised drying process (Amendment 5, 21-Dec-91). Continued - see file copy. 2 Reference to 6/19/92 meeting. Thanking agency for meeting with us. Look forward to response regarding the status of pre-approval inspections. 2 Letter sent to Agency This attached letter was sent to the agency on 6/25/92, via Fed-X. 2 FDA Letter Reference is made to your NDA submitted 27-Dec-90, pursuant to Section 505 (B (1) of the FDA act for the preparation Estrostep-21 (norethindrone acetate and ethinyl estradiol tablets and ferrous furnarate tablets). We also acknowledge receipt of your additional correspondence dated 8-Feb, 28-Mar, 19-22-26-Apr, 16-May, 12-25-Jun, 22-Aug, 2-18-28-Oct, 7-26-Nov, 20-21-Dec, 1991 and 12-Feb, 13-Mar, 16-20-Apr, 5-May, 11-18-Jun, 1992.
304610		Thu, Jun 25, 199 D. Michels W. Merino Thu, Jun 25, 199 Distribution W. Merino Thu, Aug 27, 199	90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted of the NDA. This amendment contains the 18-month stability reports for the full scale production stable and initial and 3-month results from three production scale batches using the revised drying process (Amendment 5, 21-Dec-91). Continued - see file copy. 2 Reference to 6/19/92 meeting. Thanking agency for meeting with us. Look forward to response regarding the status of pre-approval inspections. 2 Letter sent to Agency This attached letter was sent to the agency on 6/25/92, via Fed-X. 2 FDA Letter Reference is made to your NDA submitted 27-Dec-90, pursuant to Section 505 (B (1) of the FDA act for the preparation Estrostep-21 (norethindrone acetate and ethinyl estradiol tablets and ferrous furnarate tablets). We also acknowledge receipt of your additional correspondence dated 8-Feb, 28-Mar, 19-22-26-Apr, 16-May, 12-25-Jun, 22-Aug, 2-18-28-Oct, 7-26-Nov, 20-21-Dec, 1991 and 12-Feb, 13-Mar, 16-20-Apr, 5-May, 11-18-Jun, 1992. From 19-May until 9-Jul, 1992, our investigators made an inspection of your
304610		Thu, Jun 25, 199 D. Michels W. Merino Thu, Jun 25, 199 Distribution W. Merino Thu, Aug 27, 199	90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted ot the NDA. This amendment contains the 18-month stability reports for the full scale production and initial and 3-month results from three production scale batches using the revised drying process (Amendment 5, 21-Dec-91). Continued - see file copy. Reference to 6/19/92 meeting. Thanking agency for meeting with us. Look forward to response regarding the status of pre-approval inspections. Letter sent to Agency This attached letter was sent to the agency on 6/25/92, via Fed-X. FDA Letter Reference is made to your NDA submitted 27-Dec-90, pursuant to Section 505 (B. (1) of the FDA act for the preparation Estrostep-21 (norethindrone acetate and ethinyl estradiol tablets and ferrous fumarate tablets). We also acknowledge receipt of your additional correspondence dated 8-Feb, 28-Mar, 19-22-26-Apr, 16-May, 12-25-Jun, 22-Aug, 2-18-28-Oct, 7-26-Nov, 20-21-Dec, 1991 and 12-Feb, 13-Mar, 16-20-Apr, 5-May, 11-18-Jun, 1992. From 19-May until 9-Jul, 1992, our investigators made an inspection of your establishment at Fajardo, Puerto Rico, with respect to the applicable methods, facilities and controls, and observed a number of important departures from FDA
304610		Thu, Jun 25, 199 D. Michels W. Merino Thu, Jun 25, 199 Distribution W. Merino Thu, Aug 27, 199	90 discussion with Dr. Yuan Yuan Chiu of your division, updated stability data on full production scale lots are to be submitted ot the NDA. This amendment contains the 18-month stability reports for the full scale productions and initial and 3-month results from three production scale batches using the revised drying process (Amendment 5, 21-Dec-91). Continued - see file copy. 2 Reference to 6/19/92 meeting. Thanking agency for meeting with us. Look forward to response regarding the status of pre-approval inspections. 2 Letter sent to Agency This attached letter was sent to the agency on 6/25/92, via Fed-X. 2 FDA Letter Reference is made to your NDA submitted 27-Dec-90, pursuant to Section 505 (B. (1) of the FDA act for the preparation Estrostep-21 (norethindrone acetate and ethinyl estradiol tablets and ferrous fumarate tablets). We also acknowledge receipt of your additional correspondence dated 8-Feb, 28-Mar, 19-22-26-Apr, 16-May, 12-25-Jun, 22-Aug, 2-18-28-Oct, 7-26-Nov, 20-21-Dec, 1991 and 12-Feb, 13-Mar, 16-20-Apr, 5-May, 11-18-Jun, 1992. From 19-May until 9-Jul, 1992, our investigators made an inspection of your establishment at Fajardo, Puerto Rico, with respect to the applicable methods,

IND/NDA	4/DIVII	-#: 20-130	SubType: FDA CORRESPONDENCE 10/11/96 Page 10
			376 Sub Date: 12/27/90
$\mathbf{O}(\pi)$			
Generic:			Appr Date:
Product N	Vame:	Estr	ostep Tablets
	er/ ef#	Date To: From:	RE/ Report Title/ Report No. Contents/Report No./
B04610	26	Thu. Sep 03. 19	992 General Correspondence
		S. Sobel	Reference is made to our NDA 20-130 for Estrostep (norethinrone acetate and
			Additional reference is made to your letter on 27-Aug-92 that stated the application is not approvable under Section 505 (B) (1) of the act and 21 CFR 314.125(B). Reference is also made to a telephone conversation between Ms. E. Galliers and I or 25-Aug-92 regarding review of the proposed labeling and response to your then proposed 27-Aug-92 letter. In accordance with your letter and as detailed in 21 CFR 314.120 (A), we are notifying you of our intent to amend this application. Contact:
		M. Taylor	
B04610	27	Mon, Mar 08, 19	993 Amendment to Estrostep NDA Item 3
		S. Sobel	Reference is made to our pending NDA for Estrostep tabs for oral contraception submitted 27-Dec-90. Enclosed is an update to Item 3 of the Estrostep NDA. We are amending the CMC section of the NDA to provide for an additional site for analytical testing of Estrostep tabs. The alternate analytical testing site for Estrostep tabs will be W-L/P-D Pharmaceutical Research Division W-L Company 170 Tabor Road
			MOPS, NJ 07950 Our Fajardo, PR facility will remain the sole manufacturing site. Testing will be performed at Fajardo, PR or MOPS, NJ. Fajardo will remain responsible for release of the finished product. Continued - see file copy.
		S. Brennan	
B04610		Thu, Apr 08, 19	993 Information.
		I. Martin	FDA believes it is imperative to take additional steps to inform the sexually active
			populaton about wich contraceptives have the potential to protect against sexually transmitted diseases and which do not.
	= 2	S. Sobel	

	MF#: 20-130	NDA	Doc Type: FDA COF	RRESPONDENCE	10/11/96 Page 11
·	<u> </u>		SubType:	NDA	
CI#:		376	Sub Date:	12/27/90	
Generic:			Appr Date:		
Product Nan	ne:	strostep Tablet	S		
N. N. V.					
arcode Ser/ Ref#	Date To: From:	RE/ Contents	Report Title/ Report Nos/Report No./		
06850	Wed. Mar 02	, 1994 Validity	Assessment		
	S. Jones	Refere	nce is made to Dr. Carl Pecl nber 30, 1992, regarding va		
	W. Merino	Decemand process A reporservices Inc., for A number address Februar addition Estradion NDA submiss The autof	rt of the validity assessmen	s. Stephanie Gray regard It audit performed by Lac osed. Sues were raised in the re in submitted to Mr. Rich is in connection with Con efers to a 5% manufactu . This overage was mer Volume 2, Page 018). with the manufacturing a	ting the audit protocol chman Consultant eport which we are ard Davis on sent Decree activities. I ring overage of Ethinyl ntioned in the original
06850			Final Meeting Minutes	B B C C C C C C C C	
	Distribution	Endocrin	d are final minutes from the le Drug Products meeting he		
	I. Martin	minutes)			
14264	O Tue Ass Oc	1996 Amanda	nent to Estrostep NDA Items	en grand A	
· 7207	S. Sobel		e is made to our New Drug		RO) for Fetracton®
		(norethin submitte your non	ndrone acetate and ethinyl e ed on December 27, 1990, a napprovable letter of August per 3, 1992 (Ref. No. 26), n	estradiol, USP) Tablets for and its amendments. Re t 27, 1992 (Attachment	or oral contraception, eference is also made to 1), and our response of
		complian Puerto R	ng to the August 27, 1992 Ince with current good manulico facility. In addition, FD/nents for Phase 4 studies.	facturing practice regula	itions at the Fajardo,
		ar a land			soribad in the
		August 2 Manufac Notes to	by amend our application ac 27, 1992 letter. This amend turing and Controls and 4 S Reviewer in Item 3.1 sumn and archival copies of each	dment contains revised lamples, Methods Valida narize the revisions mad	Items 3 Chemistry, Ition, Labeling. The

IND/NDA/DM	IF#: 20-130	NDA	Doc Type: FDA CC	RRESPONDENCE	10/11/96 Page 12			
			SubType:	NDA				
CI#:	·	376	Sub Date:	12/27/90				
Generic:			Appr Date:					
Product Name		Estrostep Tablets						
- Froduct Name	• · · · · · · · · · · · · · · · · · · ·	Estrostep Tablets						
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B16694 (D Fri. May 2	14 1006 A	at to Fotosta NDA					
510094	S. Sobel	· ·	ent to Estrostep NDA	g Application (NDA 20-1	30) for Estroctor®			
	J. Jobel			estradiol, USP) Tablets for	•			
		submitted	on December 27, 1990,	, and its amendments. Re	eference is also made to			
		· •		t. We are revising the lat	_			
e e e e e e e e e e e e e e e e e e e		• • •		rate tablets. The blister of the physician insert will b				
	L. Bloom							
210004	3 344 - 1 1 4 5	7 40005	FDA D					
316694 (- -}-			rmation: CMC Amendme				
	L. Rarick, M			g Application (NDA 20-13 estradiol, USP) Tablets for				
		· i	•	, and its amendments. Re	•			
		_ `	•	ition and new specificatio	•			
		1		n May 6, June 4, 11, and on of information in the N				
				ission responds to the rec				
e distriction								
			tion of specifications for and norethindrone acetate	impurities/degradation pro	oducts of ethinyl			
				e. er from VKW citing PVC T	Type 37.0 in accord with			
		the packaç	ging specifications.	•	•			
		Justificat	tion of the use of an ethi	inyl estradiol excess to ac	count for manufacturing			
	· · · · · · · · · · · · · · · · · · ·		tion of the use of an in-p	process test for residual al	cohol levels instead of a			
		. I	e finished tablets.					
				tion package, identification				
•		validation		tion, and Certificates of A	analysis for the method			
	L. Bloom							
116694		6, 1996 Method Va						
	L. Bloom		_	d validation studies on Est 0-130. In order to perfort	• •			
		1		onsisting of the following:	•			
· ·	S. Senio	:						
· · · · · · · · · · · · · · · · · · ·	NA - 0 - 0	2 1000	- FDA L L II O					
		· · · · · · · · · · · · · · · · · · ·	to FDA Labeling Questio		20) for Estate - 0			
	L. Rarick			g Application (NDA 20-13 estradiol, USP) Tablets for	•			
		submitted	on December 27, 1990	and its amendments. Re	ference is also made to			
. •		.1		emistry, manufacturing a	——————————————————————————————————————			
	•	4		1996 teleconference betv , M.P.H. and Dr. Leslie Bl				
		.\$		question individually. The				
		t e e e e e e e e e e e e e e e e e e e						
	L. Bloom	in italics to	or ease of reference.					

		F#: 20-130	NDA		CORRESPO		10/11/96 Page 13 	
CI#:			376	SubType: Sub Date:	[ND/	12/27/90]	
Generic	:			Appr Date	:]	
Product Name: Estroste			Estrostep Tablets					
Floduct	waine.		Estrostep rablets					
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	30	Wed, Oct 0	2, 1996 Request for	Information				
	L. Rarick			s made to our New	• • •		30) for Estrostep [®] for oral contraception,	
			submitted o	on December 27, 19 request in telephone Iditional copies of th	990 and its are conversation	mendments. Rens with Ms. Pitt	eference is also made to ts on September 30, ubmission provides for the	
		M. Taylor				•		
	28		2, 1996 Safety Upda					
		L. Rarick	(norethindro submitted o	Reference is made to our New Drug Application (NDA 20-130) for Estrostep® (norethindrone acetate and ethinyl estradiol, USP) tablets for oral contraception, submitted on December 27, 1990, and its amendments. Reference is also made to Ms. Kish's request in a telephone conversation with Ms. Pitts on September 30, 1996 for information on a Safety Update for Estrostep.				
							tts on September 30,	
			1996 for inf	formation on a Safe been no new clinica	ty Update for al pharmacolo	r Estrostep. ogy or clinical st		
		M. Taylor	There have no new safe	formation on a Safe been no new clinica	ty Update for al pharmacolo	r Estrostep. ogy or clinical st	tudies, therefore we have	
	29		There have no new safe	formation on a Safe been no new clinica ety information to p	ty Update for al pharmacolo	r Estrostep. ogy or clinical st	tudies, therefore we have	
	29		There have no new safe 1992. 2, 1996 Request for Reference is (norethindro submitted o made to the	formation on a Safe been no new clinical ety information made to our New lone acetate and ethi n December 27, 19 e request of Septem	Drug Applications of the second secon	tion (NDA 20-1 USP) tablets for mendments. A	tudies, therefore we have update dated June 11,	